

IEMI 2024

IPC HAND SOLDERING CONTEST

INSTRUCTIONS TO CONTESTANTS - Semi-Final

The Contestants of the Hand soldering competition have to follow the below guidelines.

- 1) Each contestant will be allotted an ID number. The contestant will be identified only by his/her ID number throughout the competition and not by the name.
- 2) The contestant shall report at the venue 30 minutes before the allotted time.
- 3) Referee will allot a workstation to each contestant. An Observer will also be allotted to the respective workstation by the Referee
- 4) Contestants are required to follow ESD safe procedures during the task. Contestants shall carry their own smocks (ESD Aprons) and caps.
- 5) On instruction by the Referee, contestants can go to their allotted workstation. Check for completeness of the equipment, tools and consumables. Any shortfall has to be intimated to the allotted Observer.
- 6) If any technical clarification about the operation of any tools or equipment is required, the contestant can approach the observer / referee / sponsor.
- 7) **Assembly time allotted is 60 min. for completion of the PCB assembly.** The contestant is expected to complete the task within the stipulated time. No extra time will be given for assembly. **An additional 5 minutes will be given for housekeeping and cleaning of workstation.**
- 8) Kit shall be opened only on the announcement to start the contest.
- 9) The task includes the following:

Component BOM checking	Component Assembly	General work culture
ESD safety Compliance	Soldering operation	
Component preparation	PCBA Cleaning	

- 10) Upon completion of the task, the tools are required to be placed back in their respective places.
- 11) Ensure that the worktable is cleaned and debris if any is cleared into the trash bin.
- 12) Ensure that the ESD accessories provided are put back in their place.
- 13) Upon completion of the assembly or end of time, whichever earlier, **affix the ID number on the assembly** and handover the same to the Observer.
- 14) The PCBA will be inspected as per IPC-A-610H Class 3 requirements. Each component and connection point will be evaluated for defects and marks allocated accordingly. Assembly functionality will be checked.
- 15) Both observer score and assembly evaluation score will be considered for computing total score for the task.
- 16) A Winner and a runner will be declared. They will be eligible to participate in the finals. In case of tie between any 2 participants, time taken for completion of assembly is considered.

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